

Applicant: Martin J. Dowling
Application No.: 10/735,936

REMARKS

Claims 10-15 are currently pending in this Application. The Examiner has rejected claims 10-15. The Applicant has canceled claims 13-15 and amended claim 10 to more particularly and distinctly point out the subject matter the Applicant regards as the invention. The claim amendment is fully supported in the specification and the Applicant submits that no new matter has been added.

35 U.S.C. §102

The Examiner rejected claims 10 and 13 under 35 U.S.C. §102(e) as being anticipated by Ishiguro et al. (U.S. Publication No. 2003/0128679).

The Ishiguro reference discloses a system that receives a home cell signal sent from a base station and a foreign cell signal sent from another source. The Ishiguro system then receives spreading codes from the base station and the other source and cancels interference. However, the Ishiguro reference does not disclose, teach, or suggest a sampling device configured to sample a first, second and third signals from an antenna and produce a received vector. Additionally, there is no disclosure, teaching or suggestion that an interference canceller utilizes the received vector to produce an interference canceled signal.

On the other hand, the Applicant's claimed invention as claimed in amended independent claim 10 includes, among other things, "a sampling device configured to sample the first, second and third signals from the antenna and produce a received vector" and "an interference canceller for canceling the second signal from the received vector, producing an interference canceled signal" which is not disclosed, taught, or suggested in the Ishiguro reference.

Accordingly, amended independent claim 10 is patentably distinct from the Ishiguro reference.

35 U.S.C. §103

The Examiner rejected claims 11-12 and 14-15 under 35 U.S.C. §103(a) as being obvious over Ishiguro et al. in view of Frank et al. (U.S. Publication No. 2003/0035469).

The Ishiguro reference fails to disclose, teach or suggest a sampling device configured to sample a first, second and third signals from an antenna and produce a received vector or an interference canceller that cancels a second signal from the received vector, producing an interference canceled signal. The Frank reference discloses a minimum mean square error (MMSE) interference cancellation system, but fails to cure the deficiencies of the Ishiguro reference.

Accordingly, amended independent claim 10 is patentable over the Ishiguro and Frank references, whether taken alone or in combination with one another. Since claims 11 and 12 depend from patentable amended independent claim 10, they are patentable for at least the same reasons as patentable amended independent claim 10.

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CONCLUSION

If the Examiner believes that any formal matters for this application need to be addressed, the Examiner is respectfully invited to contact the undersigned, by telephone, at the Examiner's convenience.

In view of the foregoing remarks and amendments, the Applicant respectfully submits that the present application (including claims 10-12) is in condition for allowance and a notice to that effect is respectfully solicited.

Respectfully submitted,

Martin J. Dowling

By Thomas A. Mattioli
Thomas A. Mattioli
Registration No. 56,773
(215) 568-6400

Volpe and Koenig, P.C.
United Plaza, Suite 1600
30 South 17th Street
Philadelphia, PA 19103

TAM/yil